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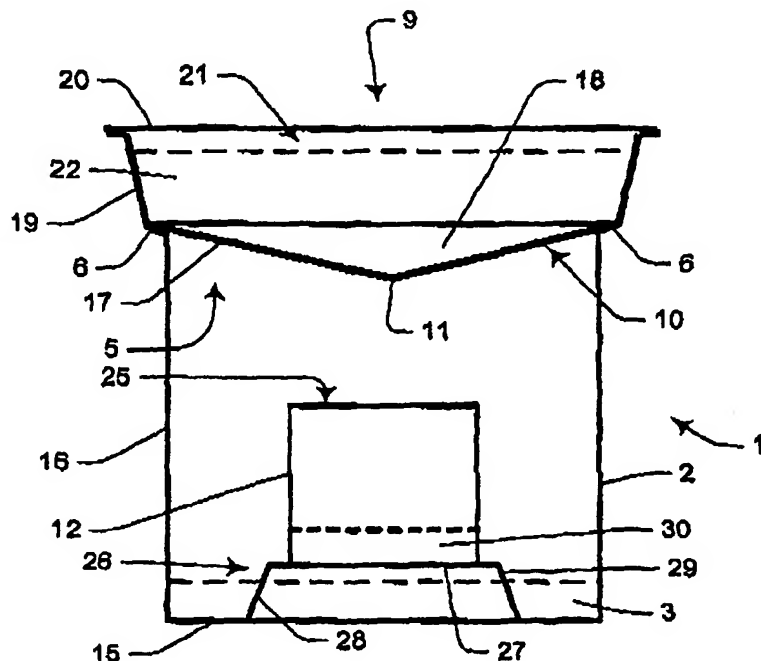
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[Continued on next page]

(54) Title: A DISTILLATION UNIT AND A METHOD OF DISTILLATION



(57) Abstract: A distillation unit (1) includes a container in the form of a generally cylindrical steel pot (2) for receiving a first liquid (3). The liquid is evaporated following application of heat from a heat source (4) to form a liquid vapour. Pot (2) has an upwardly facing generally circular opening (5) defined by a peripheral edge in the form of a continuous annular lip (6). A heat exchanger in the form of a generally circular stainless steel dish (9) engages substantially all of lip (6) and extends across substantially all of opening (5). Dish (9) has a downwardly facing substantially frusto-conical condensation surface (10) both for condensing the liquid vapour that contacts surface (10) and for directing the condensate inwardly from lip (6) to a central collection zone (11) that is a substantially planar and horizontal surface. A collector in the form of a metal drinking cup (12) is disposed within pot (2) for receiving the condensate.

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A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: C02F 1/04, B01D 3/02, 5/00

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
DWPI

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Derwent Abstract Accession No. 98-550181/47, Class D15, J04 JP 10-244250 A (MITO RIKI GLASS KK), 14 September 1998	1-20
X	Derwent Abstract Accession No. 98-460871/40, Class D15 JP 10-192839 A (TSUTSUMI), 28 July 1998	1-20
X	FR 2742740 A (PLAZA DESIGN CONSULTANT CO LTD), 27 June 1997 Whole document	1-20

☒ Further documents are listed in the continuation of Box C ☒ See patent family annex

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No..
X	DE 3535279 A (ZIEGLER), 9 April 1987 Whole document	1-20
X	WO 200003779 A (SOLAR SOLUTIONS LLC), 27 January 2000 Whole document	1-20
X	DE 4023965 A (CREMER), 27 September 1990 Whole document	1-20
X	DE 20301711 U1 (WINDSCHIEGEL MASCHBAU), 26 June 2003 Whole document	1-20

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU03/01480

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
JP	10244250				
JP	10192839				
FR	2742740	JP	9168776		
DE	3535279				
WO	0003779	AU	53142/99	BR	9912115
				EG	22043
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